

Data Status for SLR Vulnerability Assessment

	Asset Inventory Complete	Layer	Infra-structure Group	Society and Economy	Natural Resources	Data Status	Agency Data Source			
Infrastructure										
These GIS layers will be used to assess the exposure of facilities and infrastructure that are critical to residents of Delaware on a daily basis and in on an emergency basis.	●	Schools (K-16)	X			1	Source: Delaware Department of Education, Delaware Public School Layer, 9-29-2010			
	●	Fire and Rescue stations	X	X		1	Source: TechniGraphics, Inc., Delaware Fire Stations 2008 Q1, 2008-04-02			
	●	Police stations	X	X		1	Source: DHS (TechniGraphics), Delaware Law Enforcement 2009 Q4, 20091218			
	●	Communication/cell towers	X	X		1	Source: FCC, Cellular Tower Locations , 20030427			
	○	Telephone switching stations	X			0				
	●	Roads	X	X		1	Source: DelDOT, Road Centerline File, 2008-06-01			
	●	Bridges	X	X		1	Source: DelDOT, Road Centerline File, 2008-06-01			
	●	Bus Routes	X			1	Source: DelDOT - DART, DTC TRAPESE Routes and Stops, 20101001			
	●	Airports	X			1	HSIP Freedom (DHS); DelDOT - Aviation			
	●	Railroads - Stations/Lines/Holding areas	X			1	Source: USGS, 7.5 minute Digital Line Graphs - Rail, 20100930			
	●	Ports and Ferry Terminals	X	X		1	Source: DNREC - Office of the Secretary, Coastal Zone Heavy Industries, unpublished.			
	●	sewer pump stations	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies and Sussex County GIS			
	●	sewer lines	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies and Sussex County GIS			
	●	sewer treatment facilities (WWTP)	X	X	X	1	Kent County Engineering, New Castle County Special Sercvies and Sussex County GIS			
	●	Septic Systems	X	X	X	1	Source: DNREC, Delaware Septic Systems (last update 20101123), unpublished.			
	○	CSOs	X			0				
	○	spray irrigation fields	X			0				
	○	community treatment facilities	X			0				
	○	Electric generation/distribution	X			2	PEPCo - DelMarVa Power - Brianne Jordan			
	●	Hospitals and medical facilities	X	X		1	Source: DE Div. of Public Health (UofD - CADSR) , Delaware Hospitals, 2011-05-31			
	●	Emergency Operation Centers	X	X		1	Source: DEMA, EOC shapefile, 2011-04-03 [edit by Delaware Coastal Programs]			
	○	Emergency Shelters	X			2	UofD - John Laznik			
	●	Evacuation Routes	X			1	Source: DelDOT Traffic Management Team (Edwards and Kelcey) , 2007 Evacuation Routes, 2010-15-04			
	○	Pipelines	X			1	DOT-PHMSA-National Pipeline management System			
	○	Wells - domestic, public, irrigation, industrial	X	X		1	DNREC-Water Resources-Doug Rambo			
	○	Water Supply Intakes	X			0				
	○	School Bus Storage	X			0				
	●	DelDOT Maintenance Yards	X			1	DelDOT - Mike Kirkpatrick			
	●	Navigation Aids	X			1	HSIP Freedom (DHS)			
	●	Correctional Facilities	X			1	Source: TechniGraphics, Inc., Delaware Correctional Institutions 2007 Q4, 2007-11-05			
	●	National Guard Facilities	X			1	HSIP Freedom (DHS)			
	●	Day Care centers	X			1	Source: UofD - CADSR, Current Day Care Centers, unpublished.			
	●	Senior Centers	X			1	Div. of Public Health (UofD - CADSR)			
	●	Nursing Homes	X			1	Div. of Public Health (UofD - CADSR)			
	●	Refineries	X	X		1	Source: DNREC - Office of the Secretary, Coastal Zone Heavy Industrial Facilities (20110321), unpublished.			
	●	Factories	X	X		1	Source: EPA, EPA Facilities Toxics Release Inventory, 20080212			
	●	SIRB (superfund,HSCA)	X	X		1	Source: DNREC - SIRB, Site Investigation and Remediation Database, unpublished.			
	●	Leaking Underground Storage Tanks	X			1	DNREC, Leaking Underground Storage Tanks, 2010-11-15			
	●	Underground Storage Tanks	X			1	Source: DNREC, Underground Storage Tanks, 2010-10-27			
	●	Brownfields	X			1	Source: DNREC, Brownfields GIS Layer, 2010-10-27			
	○	Waste Processing Plants/Recycling Facilities	X	X		2	DNREC mapservice			

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Economy & Community Analysis These GIS layers will be used to assess the exposure of sensitive populations and the economic sector to sea level rise	●	Salvage Yards	X			1	Source: DNREC, Salvage Yards GIS Layer, 2010-10-27			
	●	Haz Waste Generator	X			1	Source: DNREC, HazWasteGenerator GIS layer, 2010-11-16			
	●	Landfills	X	X		1	Source: DNREC, Landfills GIS Layer, 2010-09-28			
	●	Marinas and Boat Launches	X			1	Source: DNREC - Fish and Wildlife, Ramps and Piers (20080603), unpublished.			
	●	Dikes, Dams and Levees	X			1	Source: DNREC - Dam Safety Program, Dams and Dikes of Delaware, unpublished			
	○	Tide Gates	X			2				
	○	Tide Gauges	X			2				
	○	Public Utilities	X	X		0				
	○	Private Utilities	X	X		0				
	○	Wind Generation	X			0				
	●	Cemetaries	X			1	Source: USGS, Geographic Names Information System, 20110615			
	●	Government Buildings	X			1	Source: DHS (TechniGraphics, Inc.), Delaware State Government Buildings, 2008-02-13			
	●	Poverty Status - Persons above or below poverty line		X		1	NOAA STICS - 2000 Census			
	○	Age - Persons in certain age groups		X		1	NOAA STICS - 2000 Census			
	●	Population - Persons (Total, white, black, NA, Asian, Pacific, Other, 2+)		X		1	NOAA STICS - 2000 Census			
	●	Household Language - Persons 5 and over (English, Spanish, Other)		X		1	NOAA STICS - 2000 Census			
	●	Education Attainment - Persons 25 and over (Less than 12th, High School Grad, Some college/Associates Degree, Bachelors/Graduate Degree)		X		1	NOAA STICS - 2000 Census			
	●	Housing Units - Occupancy/Vacancy		X		1	NOAA STICS - 2000 Census			
	●	Housing Units - Owner/Renter Occupied		X		1	NOAA STICS - 2000 Census			
	●	Automobiles - Occupied housing Units with vehicle available (1, 2, 3 or more)		X		1	NOAA STICS - 2000 Census			
	●	Housing Units -Housing Units in mobile homes, trailers, others		X		1	NOAA STICS - 2000 Census			
	○	Income - Median Household and Per Capita		X		1	NOAA STICS - 2000 Census			
	●	Families w/ Female Head & Children < 18		X		1	NOAA STICS - 2000 Census			
	●	Families w/ children < 18		X		1	NOAA STICS - 2000 Census			
	○	Delaware Environmental Justice Communities		X		1	WILMAPCO (2000 Census)			
	○	CZ Heavy Industrial Sites		X		1	DNREC-CZM			
	●	Land use		X		1	datamil.delaware.gov			
	○	Zoning		X		0				
	○	Large Employers		X		3				
	○	Employment by Economic Sector		X		3				

[illegible]

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Natural Resource Analysis										
	●	Wetlands			X	1	Source: DNREC, De_Wetlands_20100901_PD6, 2010-09-01			
	●	State Protected Areas			X	1	Source: DNREC - Parks and Recreation, Outdoor Recreation Inventory (2009), unpublished			
	●	Recharge Areas			X	1	DNREC, Recharge Areas, 2010-10-27			
	●	Wellhead Protection Areas			X	1	Sources: DNREC, Statewide WHPA 2009, 2009-09-29			
	●	Natural Areas			X	1	Source: DNREC - Parks and Recreation, Outdoor Recreation Inventory (2009), unpublished			
	●	Habitats of Conservation Concern			X	1	Source: DNREC - Natural Heritage Program, Habitats of Conservation Concern (2011), unpublished			
	●	Nature_Preserves			X	1	Source: DNREC Division of Parks and Recreation, Nature Preserves (2008), unpublished			
	○	Salt Line/Salt water intrusion		X	X	3				
	●	Coastal Impoundments			X	1	Source: Delaware Coastal Programs, Impoundments (2010), unpublished.			
	●	Septic Systems	X		X	1	Source: DNREC, Delaware Septic Systems (last update 20101123), unpublished.			
	○	Depth to Water Table			X	0				
	○	Stormwater Management Strucutures			X	0				
	●	Public Access Sites (ORI2009)			X	1	Source: DNREC - Parks and Recreation, Outdoor Recreation Inventory (2009), unpublished			
	●	Conservation Easements			X	1	Source: DNREC Division of Parks and Recreation, Conservation Easements (2010), unpublished			
	●	Forests			X	1	Source: Delaware Geographic Data Committee, 2007 Delaware Land Use and Land Cover, 2008-05-19			
	●	DNERR			X	1	Source: Delaware Coastal Programs, DNERR Boundary (2010), unpublished.			
	○	Turbidity, nutrient changes, salinity			X	3				
	○	Head of tide			X	3				
	○	Increased Extent of storm surges and habitat changes			X	3				
	○	Fisheries info, EFH, nursery habitat			X	0				
	○	Shellfish maps			X	0				
	○	Freshwater mussels			X	0				
	○	Site Specific species migration studies			X	3				
	○	Map physical barriers to wetland migration			X	3				
	○	Marsh Vulnerability Index			X	3				
	○	Model marsh response to SLR			X	3				
	○	Wetland to Forest migration maps from TNC			X	3				
	○	Economic Value of hunting and fishing			X	3				
Summary Info										
		Total Data Layers	140							
		Data Layers Collected	75							
	●	Data Layers Analyzed	68							
		Data Layers Pending	11							
		Data Layers Not Collected	28							
		Larger research needed	26							